VSR CIVIL INFRA PVT.LTD.
#552/B, 6th Main Road, Hanumanthanagara
Bengaluru-560019

Name Of TheWork:Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Contractor	**: Sri. K. Gopireddy, Bangalore.**
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**
Location	:@ Site
Part of the Structure	: Sump
Grade of Concrete	: M-20
Age of the Cube	: 28 Days
Date of Casting	18-02-2021
Date of Testing	18-03-2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8065	15*15*15	3375	225	519	23.07	23.33
2	B	8095	15*15*15	3375	225	522	23.20	
3	C	8140	15*15*15	3375	225	534	23.73	
4								
5								
6								

Average Strength= 23.33 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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#552/B, 6th Main Road, Hanumanthanagara
Bengaluru-560019

Name Of TheWork:Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yelahanka New Town.

Client	: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Contractor	: Sri. K. Gopireddy, Bangalore.
Consultant	: M/s VSR CIVIL INFRA PVT.LTD.
Location	:@ Site
Part of the Structure	: Columns
Grade of Concrete	: M-20
Age of the Cube	: 7 Days
Date of Casting	15-12-2020
Date of Testing	22-12-2020

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8010	15*15*15	3375	225	386	17.16	17.47
2	B	8112	15*15*15	3375	225	394	17.51	
3	C	8145	15*15*15	3375	225	399	17.73	
4								
5								
6								

Average Strength= 17.47 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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Bengaluru-560019

Name Of TheWork:Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Contractor	**: Sri. K. Gopireddy,** Bangalore.
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**

Location	:@ Site	**Age of the Cube**	: 28 Days
Part of the Structure	: Columns	**Date of Casting**	15-12-2020
Grade of Concrete	: M-20	**Date of Testing**	12-01-2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8100	15*15*15	3375	225	520	23.11	23.33
2	B	8200	15*15*15	3375	225	525	23.33	
3	C	8300	15*15*15	3375	225	530	23.56	
4								
5								
6								

Average Strength= 23.33 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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#552/B, 6th Main Road, Hanumanthanagara
Bengaluru-560019

Name Of TheWork:Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**		
Contractor	**: Sri. K. Gopireddy,** Bangalore.		
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**		
Location	:@ Site	**Age of the Cube**	: 7 Days
Part of the Structure	: Roof Beam & Slab	**Date of Casting**	17-02-2021
Grade of Concrete	: M-20	**Date of Testing**	24-02-2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8045	15*15*15	3375	225	387	17.20	17.48
2	B	8160	15*15*15	3375	225	396	17.60	
3	C	8275	15*15*15	3375	225	397	17.64	
4								
5								
6								

Average Strength= 17.48 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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#552/B, 6th Main Road, Hanumanthanagara
Bengaluru-560019

Name Of TheWork:Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Contractor	: Sri. K. Gopireddy, Bangalore.
Consultant	: M/s VSR CIVIL INFRA PVT.LTD.
Location	:@ Site
Part of the Structure	: Roof Beam & Slab
Grade of Concrete	: M-20
Age of the Cube	: 28 Days
Date of Casting	17-02-2021
Date of Testing	17-03-2021

S.No	Cube No.	Weight of the Cube (g)	Size of the cube (cm x cm xcm)	Vol.of the cube (cm^3)	Test area (cm^2)	Failure Load (kN)	Compressive Strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	A	8125	15*15*15	3375	225	518	23.02	23.32
2	B	8275	15*15*15	3375	225	522	23.20	
3	C	8300	15*15*15	3375	225	534	23.73	
4								
5								
6								

Average Strength= 23.32 N/mm^2

Remarks:- Test Result is Confirmed as per MORTH Specification

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Bengaluru-560019.

Test Report Of Concrete Pipes

Customer	**Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Agency	**Sri. K. Gopireddy, Bangalore.**
Name of the work	Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.
Type of Sample	Concrete pipes of Class NP2 (150mm Dia)
Techinical Reference	**As Per IS-458:2003**
Date of Testing	03.06.2021

AE

Sl no	Internal Diameter in mm	Barrel wall Thickness in mm	Outer Dia in mm
1	150mm	24.6mm	150.7mm
Requirements as per IS 458:2003	150 ± 3mm	25mm +3mm -1.5mm	------

Remarks: Test result is confirmed as per MORTH specification.

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Bengaluru-560019.

Test Report Of Glazed Stoneware Pipes

Client	**Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Agency	**Sri. K. Gopireddy, Bangalore.**
Name of the work	**Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.**
Type of Sample	**Glazed Stoneware Pipe(150mm dia)SP-1 Class**
Techinical Reference	**As Per IS-651:2007 (VI revision)**
Date of Testing	03.06.2021

Sl no	Internal Diameter	Thickness of Pipe	% absorption	% of Acid Resistance	Crushing Strength kN/m
1	150mm	15mm	4.7	1.94	**17.16**
2	150mm	20mm	4.5	1.81	**18.32**
3	150mm	20mm	5.3	1.86	**17.51**
Requirements as per IS-651:2007(VI Revision)	**-----**	**----**	**Maximum 6%**	**Not Exceed 2.5%**	**Minimum 16kN/m**

☐ **Remarks: Test result is confirmed as per MORTH specification.**

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Bengaluru-560019.

Test Report Of Concrete Pipes

Customer	**Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Agency	**Sri. K. Gopireddy, Bangalore.**
Name of the work	Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.
Type of Sample	Concrete pipes of Class NP2 $_3$(300mm Dia)
Techinical Reference	**As Per IS-458:2003**
Date of Testing	03.07.2020

AE

Sl no	Internal Diameter in mm	Barrel wall Thickness in mm	Outer Dia in mm
1	300mm	40.5mm	300.6mm
Requirements as per IS 458:2003	300 ± 3mm	25mm +3mm -1.5mm	------

Remarks: Test result is confirmed as per MORTH specification.

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Bengaluru-560019.

Test Report Of Concrete Pipes

Customer	**Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Agency	**Sri. K. Gopireddy, Bangalore.**
Name of the work	Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.
Type of Sample	Concrete pipes of Class NP2 $_3$(300mm Dia)
Techinical Reference	**As Per IS-458:2003**
Date of Testing	03.07.2020

AE

Sl no	**Internal Diameter in mm**	**Barrel wall Thickness in mm**	**Outer Dia in mm**
1	300mm	40.5mm	300.6mm
Requirements as per IS 458:2003	300 ± 3mm	25mm +3mm -1.5mm	------

Remarks: Test result is confirmed as per MORTH specification.

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Bengaluru-560019.

Date: 10.07.2020

TEST REPORT

CLIENT	:	**Executive Engineer**, Project Division, Yelahanka Zone, BBMP, Bangalore.
AGENCY	:	**Sri. K. Gopireddy,** Bangalore.
NAME OF THE WORK	:	Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	Agency

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	60.20	60.17
2	02	60.15	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	691.3	24,200	28.56	285.6	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	693.7	24,200	28.66	286.6	

⇒ Remarks: Test result is confirmed as per MORTH specification.

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VSR Civil Infra Pvt. Ltd.

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975

Bengaluru – 560 019.

KERB STONE (CORE) TEST REPORT

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Agency	**: Sri. K. Gopireddy, Bangalore.**
Name of Work	**: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.**
No.of Sample Tested	: 03
Date of Testing	**25-09-2020**
Techinical Reference	: IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	: M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core	Core Wt	Density of Core	H / D	Correction factor	Failure Load	Core Strength	Correction Factor for	Corrected Cylinder	Equivalent Cube
1	50.00	74.00	0.335	2305.60	1.48	0.960	25.60	13.04	14.08	13.52	16.90
2	50.00	79.00	0.362	2333.74	1.58	0.960	26.32	13.40	14.48	13.90	17.37
3	50.00	84.00	0.392	2376.71	1.68	0.960	26.89	13.69	14.79	14.20	17.75

Remarks:- Test Result is Conformed as per MoRTH Specification.

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#552/B, 6th Main Road, Hanumanthanagara

Bengaluru-560019

Name Of Work: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Contractor	: Sri. K. Gopireddy, Bangalore.
Consultant	: M/s VSR CIVIL INFRA PVT.LTD.

SIEVE ANALYSIS OF FINE AGGREGATE FOR CONCRETE

Sample No:	: 1A	Date Sampled	20-10-2020
Location:	: at Stackyard	Sampled by	: PMC
Total Sample Wt (gms).	1254	Date Tested	20-10-2020
		Tested by	: PMC

Sieve Size (mm)	Wt. Retained (gms)	Cum. wt. Retained (gms)	% Retained	% Passing	Specification Limits As per MoSRT&H Table No 1000-2		
					Zone I	Zone II	Zone III
10	0	0	0	100	100	**100**	100
4.75	55	55	4.68	95.32	90 - 100	**90 - 100**	90 - 100
2.36	235	290	23.13	76.32	60 - 95	**75 - 100**	85 - 100
1.18	145	435	34.69	65.11	30 - 70	**55 - 90**	75 - 100
0.6	250	685	54.63	45.32	15 - 34	**35 - 59**	60 - 79
0.3	295	980	78.15	21.65	5 - 20	**8-30**	12-40
0.15	205	1185	94.50	5.23	0 - 10	**0 - 10**	0 - 10
Pan							

Fineness modulus :-

Remarks:- Test Result is Conformed as per MoRTH Specification.

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Consultants representative **Contractor representative** **Client Representative**

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Bengaluru-560019

Name Of Work: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Contractor	**: Sri. K. Gopireddy, Bangalore.**
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**

SIEVE ANALYSIS OF FINE AGGREGATE FOR CONCRETE

Sample No:	: 1A	**Date Sampled**	21-10-2020
Location:	: at Stackyard	**Sampled by**	: PMC
Total Sample Wt (gms).	1355	**Date Tested**	21-10-2020
		Tested by	: PMC

Sieve Size (mm)	Wt. Retained (gms)	Cum. wt. Retained (gms)	% Retained	% Passing	Specification Limits As per MoSRT&H Table No 1000-2		
					Zone I	Zone II	Zone III
10	0	0	0	100	100	**100**	100
4.75	60	60	4.68	95.32	90 - 100	**90 - 100**	90 - 100
2.36	120	180	13.28	86.31	60 - 95	**75 - 100**	85 - 100
1.18	65	245	18.08	81.62	30 - 70	**55 - 90**	75 - 100
0.6	495	740	54.61	45.32	15 - 34	**35 - 59**	60 - 79
0.3	160	900	66.42	33.52	5 - 20	**8-30**	12-40
0.15	355	1255	92.62	7.35	0 - 10	**0 - 10**	0 - 10
Pan							

Fineness modulus :-

Remarks:- Test Result is Conformed as per MoRTH Specification.

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Bengaluru-560019

Name Of Work: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.**
Contractor	**: Sri. K. Gopireddy, Bangalore.**
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**

SIEVE ANALYSIS OF FINE AGGREGATE FOR CONCRETE

Sample No:	: 1A	**Date Sampled**	21-10-2020
Location:	: at Stackyard	**Sampled by**	: PMC
Total Sample Wt (gms).	1525	**Date Tested**	21-10-2020
		Tested by	: PMC

Sieve Size (mm)	Wt. Retained (gms)	Cum. wt. Retained (gms)	% Retained	% Passing	Specification Limits As per MoSRT&H Table No 1000-2		
					Zone I	Zone II	Zone III
10	0	0	0	100	100	**100**	100
4.75	110	110	7.35	92.65	90 - 100	**90 - 100**	90 - 100
2.36	135	245	16.07	83.65	60 - 95	**75 - 100**	85 - 100
1.18	35	280	18.36	81.52	30 - 70	**55 - 90**	75 - 100
0.6	595	875	57.38	42.55	15 - 34	**35 - 59**	60 - 79
0.3	150	1025	67.21	32.65	5 - 20	**8-30**	12-40
0.15	370	1395	91.48	8.21	0 - 10	**0 - 10**	0 - 10
Pan							

Fineness modulus :-

Remarks:- Test Result is Conformed as per MoRTH Specification.

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Bengaluru-560019

Name Of Work: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBM**
Contractor	**: Sri. K. Gopireddy, Bangalore.**
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**

SIEVE ANALYSIS OF COARSE AGGREGATE INDIVIDUAL & COMBINED GRADATION FOR CONCRETE (As per IS 383)

Sample No:	: 2B	Date Sampled	20-10-2020
Location:	: at Stackyard	Sampled by	: PMC
Total Sample Wt (gms).	13520	Date Tested	20-10-2020
		Tested by	: PMC

Blending Proportions of Aggregates

20mm- 50 % 10mm- 50 %

IS Sieve (mm)	Wt. Retained (gms)	Cum. wt. Retained (gms)	% Retained	% Passing	Specification. Limit
40	0	0.00	0.00	100.00	**100.00**
20	360	360	2.68	97.32	**95-100**
10	8760	9120	67.46	32.54	**25-55**
4.75	3690	12810	94.75	5.25	**0-10**

Remarks:- **Test Result is Conformed as per MoRTH Specification.**

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Bengaluru-560019

Name Of Work: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBM**
Contractor	**: Sri. K. Gopireddy, Bangalore.**
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**

SIEVE ANALYSIS OF COARSE AGGREGATE INDIVIDUAL & COMBINED GRADATION FOR CONCRETE (As per IS 383)

Sample No:	: 2B	Date Sampled	21-10-2020
Location:	: at Stackyard	Sampled by	: PMC
Total Sample Wt (gms).	12540	Date Tested	21-10-2020
		Tested by	: PMC

Blending Proportions of Aggregates

20mm- 50 % 10mm- 50 %

IS Sieve (mm)	Wt. Retained (gms)	Cum. wt. Retained (gms)	% Retained	% Passing	Specification. Limit
40	0	0.00	0.00	100.00	**100.00**
20	845	845	6.75	93.25	**95-100**
10	7615	8460	67.46	32.54	**25-55**
4.75	3220	11680	93.14	6.86	**0-10**

Remarks:- **Test Result is Conformed as per MoRTH Specification.**

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#552/B, 6th Main Road, Hanumanthanagara

Bengaluru-560019

Name Of Work: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Client	**: Executive Engineer, Project Division, Yelahanka Zone, BBM**
Contractor	**: Sri. K. Gopireddy, Bangalore.**
Consultant	**: M/s VSR CIVIL INFRA PVT.LTD.**

SIEVE ANALYSIS OF COARSE AGGREGATE INDIVIDUAL & COMBINED GRADATION FOR CONCRETE (As per IS 383)

Sample No:	: 2B	Date Sampled	21-10-2020
Location:	: at Stackyard	Sampled by	: PMC
Total Sample Wt (gms).	14580	Date Tested	21-10-2020
	.	Tested by	: PMC

Blending Proportions of Aggregates

20mm- 50 % 10mm- 50 %

IS Sieve (mm)	Wt. Retained (gms)	Cum. wt. Retained (gms)	% Retained	% Passing	Specification. Limit
40	0	0.00	0.00	100.00	**100.00**
20	240	240	1.68	98.32	**95-100**
10	9595	9835	67.46	32.54	**25-55**
4.75	3820	13655	93.66	6.34	**0-10**

Remarks:- **Test Result is Conformed as per MoRTH Specification.**

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#552/B, 6th Main Road, Hanumanthanagara

Bengaluru-560019.

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Project Division,** Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. K. Gopireddy,** Bangalore.

Name of Work : Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 25.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	536	547	13.5
2	Fe 500	10	0.62	551	561	14
3	Fe 500	12	0.89	565	576	15

Remarks: Test result is conformed as per MORTH specification.

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TEST REPORT ON CERAMIC TILES

Client : **Executive Engineer, Project Division,** Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. K. Gopireddy,** Bangalore.

Name of Work : Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Technical Reference : IS: 13630 - 2006 - Method of Testing Ceramic Tiles
IS 15622 - 2006 - Specification of Ceramic Tiles

No. of Samples Tested : 05 (Five)

Date of Testing : 03.03.2021

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x6.8	48.3	47.94	Average 47, indivisual minimum 44 N/mm^2
2	300x300x6.3	47.6		
3	300x300x6.5	48.9		
4	300x300x6.2	48.1		
5	300x300x6.6	46.8		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x6.8	No visible effect	Class AA, min (13630 Part 8)
2	300x300x6.3	No visible effect	
3	300x300x6.5	No visible effect	
4	300x300x6.2	No visible effect	
5	300x300x6.6	No visible effect	

III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	300x300x6.8	Stain Removed by Water	Class 1, min (13630 Part 8)
2	300x300x6.3	Stain Removed by Water	
3	300x300x6.5	Stain Removed by Water	
4	300x300x6.2	Stain Removed by Water	
5	300x300x6.6	Stain Removed by Water	

Remarks: Test result is confirmed as per MORTH specification.

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III. **HARDNESS:**

Sl. No.	Measured Dimension (mm)	Moh's scale Hardness No.
1	400 x 400 x 24.6	5
2	400 x 400 x 24.9	5
3	400 x 400 x 24.4	5
4	400 x 400 x 24.3	5
5	400 x 400 x 24.8	5
6	400 x 400 x 24.5	5

Remarks: Test result is confirmed as per MORTH specification.

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Bengaluru-560019.

TEST REPORT ON PRE-POLISHED DESIGNER CEMENT CONCRETE TILES

Client : **Executive Engineer,** Project Division, Yelahanka Zone, BBMP, Bangalore.

Contractor : **Sri. K. Gopireddy,** Bangalore

Name of the Work : Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Sample ID : Pre-Polished Designer Cement Concrete Tiles

Technical Reference : IS: 1237-1980 (Reaffirmed 2006)

No. of Samples Tested : 6 (Six)

Date of Testing : 03.03.2021

I. WET TRANSVERSE STRENGTH TEST:

Sl. No.	Measured Dimension (mm)	Wet Transverse Strength (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 1237-1980 (Reaffirmed 2006)
1	400 x 400 x 24.6	6.3	6.80	The average wet transverse strength should not be less than 3.0 N/mm^2 when 6 full size tiles are tested.
2	400 x 400 x 24.9	6.9		
3	400 x 400 x 24.4	7.1		
4	400 x 400 x 24.3	6.4		
5	400 x 400 x 24.8	6.8		
6	400 x 400 x 24.5	7.3		

II. WATER ABSORPTION TEST:

Sl. No.	Measured Dimension (mm)	Water Absorption (% by Wt)	Average (% by Wt)	Requirement as per IS: 1237-1980 (Reaffirmed 2006)
1	400 x 400 x 24.6	2.5	2.78	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
2	400 x 400 x 24.9	2.6		
3	400 x 400 x 24.4	3.1		
4	400 x 400 x 24.3	2.4		
5	400 x 400 x 24.8	3.3		
6	400 x 400 x 24.5	2.8		

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TEST REPORT ON VITRIFIED TILES

Client	: Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore.
Contractor	: Sri. K. Gopireddy, Bangalore.
Name of the work	: Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.
Technical Reference	: IS: 13630 - 2006 - Method of Testing Vitrified Tiles IS 15622 - 2006 - Specification of Ceramic Tiles
No. of Samples Tested	: 05 (Five)
Date of Testing	: 03.03.2021

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.5	46.6	46.82	Average 47, indivisual minimum 44 N/mm^2
2	600 x 600 x 9.2	46.4		
3	600 x 600 x 9.8	46.3		
4	600 x 600 x 9.4	47.1		
5	600 x 600 x 9.6	47.7		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.5	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 9.2	No visible effect	
3	600 x 600 x 9.8	No visible effect	
4	600 x 600 x 9.4	No visible effect	
5	600 x 600 x 9.6	No visible effect	

III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.5	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 9.2	Stain Removed by Water	
3	600 x 600 x 9.8	Stain Removed by Water	
4	600 x 600 x 9.4	Stain Removed by Water	
5	600 x 600 x 9.6	Stain Removed by Water	

Remarks: Test result is confirmed as per MORTH specification.

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TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Project Division,** Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. K. Gopireddy,** Bangalore.

Name of Work : Development of Parks and construction of Toilets at B Sector Parks in Ward No 04 Yalahanka New Town.

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 25.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	536	547	13.5
2	Fe 500	10	0.62	551	561	14
3	Fe 500	12	0.89	565	576	15

Remarks: Test result is conformed as per MORTH specification.

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